A.N.A.R.T.S. News Bulletin 1359 for 31st July 2005.

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Col's Column

Early Electrical Communication.

Early Electrical Communications, United States.

During Oct 1837 Morse filed a Caveat with the United States patent office. The contents were as follows:

1. A system of signs, by which numbers, and consequently words and sentences are signified.

2. A set of type, adapted to regulate and communicate the signs, and rules in which to set up the type.

3. an apparatus called the 'Port Rule' for regulating the movements.

4. A register, which records the signs permanently.

5. A dictionary, or vocabulary of words, numbered and adapted to this system of the telegraph.

6. Modes of laying the conductors, to protect them from injury.

The advance in technology over the ten years following this Caveat was so great, none of the items contained in it survived for long.

The number code and the type sender were first to be replaced. In a book titled 'The Memorial of Samuel F. B. Morse', it states 'After a few weeks of trial, he (Morse), laid the types and port rule aside and substituted therefore a key and key-board'.

Morse's partner Vail, constructed an improved Register, it was felt necessary to make a permanent record of the signals being received on the telegraph.

In this register, a lever pivoted and rocked in a vertical plane under the infuluence of an electromagnet that was mounted under one end of the lever. The other end of this lever held a pencil pointing upwards and, over which, passed a moving paper strip. When receiving a signal, the electromagnet moved the lever and so the pencil drew either a long or short mark depending on the duration of the signal.

Other means of recording, in lieu of the pencil were tried, such as a Fountain Pen, Inked Wheels etc, but it was a steel stylus that embossed the mark on the paper strip that was finally settled

on.

More of this system next week.

DE Col VK2CTD

IPS Weekly Solar and Geophysical Report 22/28th Jul

SUMMARY

Date	22	23	24	25	26	27	28
10cm flux	74	80	80	84	87	91	96
AFr index	8	2	3	3	4	15	16 est
Aaus index	8	3	3	2	3	8	14 est
T index	19	17	20	23	38	43	52

Solar flare activity was very low 22/26th and moderate
on 27th with one M3 flare, and again moderate on 28th
with one M4 and one M1 flare.

Geomagnetic activity observed for the Australian Region was
quiet to unsettled on 22nd quiet on 23rd to 26th quiet to
active on 27th and quiet to minor storm on 28th.

Southern Australian Ionospheric F2 critical frequencies were near
predicted to 15 percent depressed on 22/23rd near predicted on
24/26th and 28th and near predicted to 15 percent enhanced on 27th.

Reports of solar flare activity for 12th 13th and 16th Jul have been
amended by IPS as follows:

12th moderate with four M1 flares
13th high with one M5 one M3 and three M1 flares
16th moderate with one M1 flare

Forecast for 29 Jul to 4th Aug

Solar activity should be moderate throughout the week.

Geomagnetic activity should see quiet to unsettled conditions.
There is a chance of active periods early in the week. There is
also a chance of CME related shocks later in the week.

Frequencies should be near predicted monthly values. Periods of
degradation are expected mainly at high latitudes.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

IDENT DE VK2CTD VK2CTD

VK2SG RTTY DX NOTES WEEKENDING 28 JUL

Our thanks this week go to W2JGR AA5AU DJ3IW GU0SUP WX5L UT5RP
OH2AQ DXSummit.

Bandpass:

Friday 22
0127-18100 PZ5RA
0833-24924 ZC4LI
1240-18105 ZC4LI
1454-14082 5I3A
1502-14083 TI8CBT
1742-14086 R11FLY
1833-14080 PA2000N
1951-14080 HA80IARU
2015-14084 TA1EE

Saturday 23
0325- 7041 TA1DX
0454-14085 TA1DX
0542-14083 KL7QR
0800-14082 KH6ZM
0809-14093 8J2AI
0812-14085 R11FLY
1053-24924 ZC4LI
1122-18104 ZC4LI
1220-14085 UN5J
1305-14084 CX7OC
1627-14084 UN8PIM
2012-14085 HA80IARU
2043-14085 EA6/DJ7EY
2127-14084 UT6EY
2137-14088 4X6VR
2141-14080 UA0FAI
2144-14087 UX0SX
2148-14087 CT2ILI
2150-14081 XE1ZVO
2156-14086 FM5AA
2244-14086 TA7EB

Sunday 24
0514-14082 KH6ZM
0649-14080 SV9/ON4AAA
0907-14085 R11FLY
1208-14082 OO4CDX
1406-14087 YB1YG
1419-14086 TI8CBT
1425-18100 YB5AQB
1552-14086 UN8PIM
1619-14081 SV9/DL6ZFG
1717-14083 CU6NS
1732-14085 EA8RA
1804-14088 CT2LI
1806-13082 SU9FL
1845-14080 SV9/ON4AAA/P
1949-14087 FM5AA
1956-14089 TF3HP
2003-14087 OX3DB

Monday 25
0716-14079 SV9/DL6ZFG
1143-18103 4X7UO
1158-14086 OX3DB

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1209-18105 TK/F6AUS
1330-18102 KP4JRS
1349-14091 CU6NS
1422-14085 OX3HX
1431-14085 SU9FL
1439-14086 TI8CBT
1453-14086 VQ9LA
1531-14086 CU6NS
1545-14085 CU6NS
1726-14080 EA9IB
1739-14090 4O310SKY
2056-14088 ES0IC
2121-14090 PZ5RA
2220-14089 KP4ED

Tuesday 26
0856-14089 TF3KX
1117-14072 EA8OK
1212-14087 EA9IB
1244-14083 OX3DB
1411-14085 YB1YG
1412-14083 OX3HX
1519-14084 YB1YG
1712-14088 HR1GNG
1718-18105 VQ9LA
1751-14084 CU6NS
2017-14080 SV9/ON4AA/P
2017-10140 PJ2MI
2142-14084 EW3BF

Wednesday 27
0553-14078 SV9/ON4AA/P
1431-14081 9V1VV
1437-14085 HZ1NH
1459-14084 DR1A
1616-14087 SV9/SV1QN
1638-14084 ES0IC
1803-14082 SV9/ON4AA/P
1810-18100 UX0FF
1845-14083 CU6NS
1909-14081 EA6BH
1923-14092 FM5AA
1927-14091 4O310SKY
1952-21080 EA9IB
2022- 3586 DR1A

Thursday 28
0019-14080 TI8CBT
0348-14083 KH6ZM
0440-14083 VK9NS
0618- 7040 DR1A
0918-14083 IT9BLB/IH9
0922-14083 CU6NS
0925-14083 TA3/DG4MLO
1245-14082 SV9/DL6ZFG
1512-14083 R11FLY
1555-14083 9V1VV
1646-14082 UN7GCE
1649-14088 9M2MT
1712-14086 UN8PIM
1715-14085 TF3GC
1741-14083 EA9IB
1929-14090 4O310SKY
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1946-14084 CU6NS

Note of interest:

SABLE ISLAND. Just a remind Jul 27/Aug 3rd look for
CY0AA by K8LEE W8CEX and W9IXX from 160 to 6m.

UGANDA. Look for JA1DOT active from Aug 3/12th as 5X1W
from 160 to 10m. Qsl via JARL Bureau or direct.

You can also subscribe to the digital-dx reflector - send an
e-mail message to majordomo at mla.nifty.ne.jp as follows:
Subject: (blank) Message Body: subscribe digital-dx

For next week's bulletin, send your bandpass and notes of
interest to Goetz dj3iw at t-online.de

Gl de (DX2) Luciano I5FLN

The Ohio/Penn DX Bulletin No. 719 - excerpts

FP, ST. PIERRE AND MIQUELON (Update)
Paul, FP/K9OT, and Peg, FP/KB9LIE (YL), should be on the air
from Miquelon (NA-032) shortly after 0000Z on Jul 30. This is
their fifth annual trip to Miquelon and Pegs 10th anniversary as
a ham. Preferred band-modes are 30-40-80 CW for Paul and 17-20-40
SSB for Peg, other bands depending on propagation and conditions,
100 watts to single-band wire verticals on the Atlantic Ocean. They
plan to be active in the RSGB IOTA Contest as Single-Ops and Paul
will be in the North American CW QSO Party.

IOTA NEWS
AS-066. Operators RA0LSO RU0LAX RW0MM UA0LHT UA0LSK and YLs SWL
will be active as RK0LWW/p from Russkiy Island (Sea of Japan Coast
Group) during the RGSB IOTA Contest (Jul 30-31) as Multi-Op/High-
Power/DXpedition. QSL via info on (QRZ.com).

AS-118. A group of operators, with the support of the Kuwait Amateur
Radio Society (KARS), are planning to operate as 9K2F from Faylakah
Island from Jul 27/Aug 3. They will also participate in the RSGB
IOTA Contest (Jul 30-31). QSL via 9K2RA, by the Bureau (preferred)
or direct to KARS PO Box 5240, 13053, Safat, Kuwait.

EU-003. Joao (John) CU3AA will be active from Sao Miguel Island (WLOTA
2016) Jul 26-29. He will also activate four lighthouses (ARLHS
references AZO-004 AZO-008 AZO-012 and AZO-017). Each one will be
activated for one day between 1000-1700z.

EU-045. Amedeo, IZ0FXW, will be active as IB0MDC from Ponza Island
(IIA LT-001 and MIA MI-076) Aug 14-25. QSL via his home callsign
direct or by the bureau. Further information can be found at
http://www.mdxc.org/ib0mdc

EU-101. Operators OH6HJE, OH6UV and OH6NJ were expected to be active
as OH6AW from Berg Island over the past weekend. QSL via OH6AD.

EU-128. Gerold DH6GD, will be active as DH6GD/p from Fehmarn Island
(GIA O-01) now thru Aug 10. Activity will be on 80-10M CW SSB and
PSK-31. He also plans to participate in the IOTA Contest. QSL via

his home callsign direct or by the bureau.

EU-132. Operators Zick/SP3BJK and Przemek/SQ3RX will be active as homecall/1 from Wolin Island (SPIA SZ-002 for the Polish Islands Award) now thru Aug 2. Activity will be on all HF bands, CW and SSB and the IOTA Contest. QSL via SQ3RX, direct or by the bureau.

NA-014. Operators Reg/VE2AYU Alain/VE2DAV Fred/VE1FA (ex-VE2SEI) and Helen VA1YL (ex-VE2YAK) along with Bill/VE1MR Lynn/VE1ENT Gary/VE1RGB Rich/VE1CHP and Howard/VE1DHD will activate Whitehead Island from Jul 28/Aug 2 during the annual Islands On The Air (IOTA) Contest. Whitehead Island (Canadian Islands NB-010 Grid FN-64) is close to Grand Manan Island, NB. Activity will be on CW and SSB on 80-10M. The special event callsign VC9W will be used to commemorate the 200th anniversary of the first settlers on Whitehead Island. QSLs will be via VE1RGB at RAC.ca

NA-082. Tom, K4ZGB, plans to be active from Petit Bois Island (USI MS-004 Jackson County Mississippi) as K5Z between now and Aug 2. His activity will include the IOTA contest. Activity outside of the contest will be on 40-10M. QSL via K4ZGB (QRZ.com).

OC-NEW. Kardi YB1TC the QSL Manager for last years Peucang Island DXpedition (OC-237) announced that there are plans to go to Karimata Island (a new IOTA) for early Sep 05. The group going is looking for support.

SA-069. (UPDATE) Members of the Atacama Desert DX Group will be on the air as 3G1M from Santa Maria Island, Aug 12-15. Operators mentioned are Nicolas/XQ1IDM SERGIO/CE1RQB Mauricio/CE2WUI Mauricio /CA2UDO Luis/CE2UWJ Danilo/XQ4ZW and Marco/CE6TBN. Activity will be on 40-10M including the WARC bands and 6M. Modes will be CW SSB RTTY and BPSK. QSL via XQ1IDM by the bureau or direct. Visit their Web page at http://www.mdxc.org/3g1m

JW, SVALBARD
Operators Tony/EI2GX Anthony/EI3HA Dermot/EI5IQ Declan/ EI6FR Emmet EI7HF and liam/EI7DSB will be active from here Jul 27/Aug 3. QSL to the home callsigns of the station worked. The callsign JW/EI7HF will also be used in the IOTA contest.

MD4, ISLE OF MAN
Operators David/G3NKC, Martin/G4XUM, Roger/G4BVY, Royce/M0RHI and Tim /M0BEW (aka The Manx Kippers) will be active as MD4K during the IOTA Contest as a Multi-Op entry. There may be limited operations before the contest. The team states We welcome any requests for band QSYs (SSB or CW) during the contest from IOTA mults and will try to arrange skeds if requested by non-mults. QSL as usual via G3NKC direct, bureau or via the Web page at http://www.md4k.com

MW0, WALES
Jim M0ZAK will be heading off into the depths of Wales Lleyn Peninsula to be exact from Aug 2-5 for a midweek break prior to a weekends vintage motorcycle race on the Island of Anglesey. Modes will be digital mainly PSK31 with some RTTY on 40-10M as band conditions allow. He will be signing MW0ZAK/p from a caravan site in Grid Square IO72pt. QSL via M0ZAK.

TK, CORSICA
Stefano IK5XCT will be active as TK/IK5XCT now thru Aug 6. Activity will be on all HF bands. QSL via his home callsign. For a bureau QSL card visit the following Web page and file out the QSL request form at http://www.qsl.net/ik5xct

ZK1, SOUTH COOK ISLANDS
Gordon ZL2ARN will be active as ZK1ARN from Aitutaki (OC-083) South Cook Islands between Jul 27/Aug 3. Activity will be on all bands and modes but casual style. QSL via his home callsign.

The Society can be contacted in the following ways
To Pat VK2JPA via patleeper at optusnet.com.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN